

CLAIMS:

1. A collector for an alkaline secondary battery comprising;
a nonwoven fabric which has been hydrophilized by one of sulfonation, gaseous
fluorine treatment and vinyl monomer grafting; and
a nickel film plated on the nonwoven fabric.
2. A collector for an alkaline secondary battery according to claim 1, wherein the
nonwoven fabric has a plurality of micropores extending from one surface to another surface
thereof.
3. A collector for an alkaline secondary battery according to claim 1, wherein the
nonwoven fabric includes crimped fibers.
4. A collector for an alkaline secondary battery according to claim 2, wherein the
nonwoven fabric includes crimped fibers.
5. A collector for an alkaline secondary battery according to claim 1, wherein the
nonwoven fabric is produced by a wet process.
6. A method for making a collector for an alkaline secondary battery, comprising:
a hydrophilizing step of hydrophilizing a nonwoven fabric comprising at least one of
a polyolefin fiber and a polyamide fiber to produce a hydrophilic nonwoven fabric; and
a plating step of applying nickel plating to the hydrophilic nonwoven fabric.
7. A method for making a collector for an alkaline secondary battery according to
claim 6, wherein the hydrophilizing step includes a treatment selected from sulfonation,
gaseous fluorine treating and vinyl monomer grafting.
8. A method for making a collector for an alkaline secondary battery according to
either claim 6, wherein the nonwoven fabric has a plurality of micropores extending from one
surface to the other surface thereof.
9. A method for making a collector for an alkaline secondary battery according to
either claim 7, wherein the nonwoven fabric has a plurality of micropores extending from one
surface to the other surface thereof.
10. A method for making a collector for an alkaline secondary battery according to
claim 6, wherein the nickel plating step comprises electroless plating.
11. A method for making a collector for an alkaline secondary battery according to
claim 7, wherein the nickel plating step comprises electroless plating.
12. A method for making a collector for an alkaline secondary battery according to

claim 8, wherein the nickel plating step comprises electroless plating.

13. A method for making a collector for an alkaline secondary battery according to claim 10, wherein the step of electroless plating produces an electroless plating film.

14. A method for making a collector for an alkaline secondary battery according to claim 11, wherein the step of electroless plating produces an electroless plating film.

15. A method for making a collector for an alkaline secondary battery according to claim 12, wherein the step of electroless plating produces an electroless plating film.

16. An alkaline secondary battery comprising a collector including a nonwoven fabric which has been hydrophilized by one of sulfonation, gaseous fluorine treatment and vinyl monomer grafting; and a nickel film plated on the nonwoven fabric.

17. The alkaline secondary battery according to claim 16, wherein the nonwoven fabric has a plurality of micropores extending from one surface to another surface thereof.

18. The alkaline secondary battery according to claim 16, wherein the nonwoven fabric includes crimped fibers.

19. The secondary battery according to claim 1, wherein the nonwoven fabric is produced by a wet process.